

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson. TDOT Aeronautics is located near the John C. Tune Airport in Nashville, TN.



Technical Specialist – Statewide Data Governance Asset Management Division – Transportation Data Systems Section \$99,864.00 annually

Job Overview

The Statewide Data Governance Technical Specialist is pivotal in establishing and maintaining TDOT's comprehensive data governance framework. This position involves developing user-friendly tools, such as data dictionaries and metadata repositories, to ensure consistent and accessible data usage across departments. The Specialist collaborates with IT and stakeholders to implement secure, compliant software solutions that integrate seamlessly with TDOT systems, enabling effective data visualization, predictive analytics, and evidence-based decision-making.

The Statewide Data Governance Technical Specialist addresses complex data challenges and enhances asset management practices. This role involves conducting data quality initiatives and comprehensive analyses to ensure compliance with TDOT policies and legal requirements, focusing on data retention, auditing, and disaster recovery protocols. The specialist provides actionable insights to advance TDOT's statewide asset management strategies, aligning data management practices with departmental goals. Key responsibilities include training stakeholders and fostering collaborative relationships with internal and external teams. By improving the reliability, efficiency, and accessibility of TDOT's data systems, the specialist contributes to the agency's operational excellence and long-term success.

Essential Job Responsibilities

Establish and oversee a comprehensive data governance framework by developing and maintaining user-facing tools, including a data dictionary and metadata repository, to promote consistent and accessible data usage across departments. Ensure asset management data sets comply with TDOT policies and are effectively visualized through user-friendly and compliant front-end software solutions that enhance analytics and reporting capabilities. Collaborate with stakeholders to optimize data presentation for predictive and prescriptive analytics, enabling clear and actionable insights into asset management operations.

Collaborate with TDOT's IT department to develop and implement a strategic data management plan that ensures seamless integration of systems and data sets, secure and compliant back-end software tools, and protocols for data security, performance optimization, and interoperability, supporting reliable back-end operations and enabling efficient data flows for predictive analytics and decision-making.

Work collaboratively with TDOT's IT department to manage and optimize asset management systems by ensuring the acquisition and implementation of compliant

software, seamless integration with enterprise platforms, and alignment with operational needs across departments. Coordinate with IT to oversee system security, performance, and accessibility administration, including granting and monitoring access rights.

Lead efforts to maintain high data quality by developing validation, auditing, and data cleansing protocols, proactively addressing data gaps and inconsistencies to ensure compliance with established data standards and TDOT AM policies.

Assist TDOT's AM Quality Management Section in developing data retention, policies, archiving, and disposal to ensure full compliance with legal and regulatory requirements. Enforce developed retention policies while optimizing storage efficiency and backup processes. Collaborate with IT to establish and maintain disaster recovery protocols to safeguard critical data assets, ensuring resilience and continuity during potential disruptions.

Conduct comprehensive analyses of collected data to identify trends, performance gaps, and high-impact areas for strategic improvement. Develop detailed, data-driven reports and provide actionable recommendations to advance TDOT's data collection alignment to optimize performance. Facilitate decision-making by synthesizing data from multiple sources and supporting evidence-based enhancements to statewide asset management initiatives.

Collaborate with Headquarters and Regional Offices to assess and identify training needs for enhancing data collection processes, ensuring data accuracy, and supporting the implementation of standardized practices in alignment with the department's Asset Management objectives.

Coordinate with stakeholders to align data management practices with departmental goals, manage software access requests, provide governance policies and systems training, and liaise between IT and asset management teams to address data and system needs.

Deliver exceptional customer service to project stakeholders by sharing relevant data, ensuring accessible and organized data information, practicing effective communication, and maintaining positive public relations. Respond promptly and accurately to inquiries from the public and department personnel.

Qualifications

- Bachelor's degree in information systems / management information systems (MIS), Computer Science, Data Science and Library and Information Science, Cybersecurity / Information Assurance, or related field
- 8 years of demonstrated competency in data management, IT, or related technical discipline.

OR

- Master's degree Data Systems, IT Systems, or related field
- 7 years of demonstrated competency in data management, IT, or related technical discipline.

Preferred Qualifications:

- Certified Data Management Professional (CDMP)
- Certified Information Systems Auditor
- Data Governance and Stewardship Professional
- ITIL Foundation Certification

Ideal Candidate

The Statewide Data Governance Technical Specialist position is a highly skilled and detail-oriented professional with extensive experience in data governance, IT management, and asset management systems. They excel in developing and maintaining user-focused tools such as data dictionaries and metadata repositories, ensuring consistent and accessible data usage across departments. This candidate demonstrates exceptional organizational, communication, and collaboration skills, enabling effective stakeholder engagement and alignment of data practices with departmental goals. Their commitment to excellence and proactive problem-solving significantly enhances the reliability, security, and efficiency of TDOT's Asset Management operations, benefiting internal and external stakeholders.